SEQUENCE LISTING

<110> Okazaki National Research Institutes

<120> Method for producing a biosensor protein capable of regulating a fluorecence property of Green Fluorecent Protein, and the biosensor protein produced by the method.

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<150> JP/2000-356047

<151> 2000-11-22

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<170> PatentIn Ver. 2.0

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G1y	Glu	Gly	Asp	Ala	Thr	Tyr	Gly	Lys	Leu	Thr	Leu	Lys	Phe	Ile	Cys	
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		Gly														
	50	•	•			55		•			60					
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		Gly														
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00					10										00	
cac	gac	ttc	ttc	ลลฮ	tcc	gcc	ato	ccc	₀ 22	ggc.	tac	gtc	cag	gag	cgc	288
		Phe														200
1112	nsp	1116	1 110	85 85	261	пта	Met	110	90	Uly	1 9 1	7 4 1	0111	95	MIS	
				00					30					30		
	.+.	44.	++-		~~~	~~~	~~~		+				~~~	~~~	~+ ~	າາຄ
		ttc														336
Inr	116	Phe		Lys	Asp	ASP	GIY		lyr	Lys	ınr	Arg		GIU	vai	
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Lys	Phe	Glu	Gly	Asp	Thr	Leu		Asn	Arg	lle	Glu		Lys	Gly	He	
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		aag														432
Asp	Phe	Lys	G1u	Asp	Gly	Asn	Ile	Leu	G1y	His	Lys	Leu	Glu	Tyr	Asn	
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tcc	cta	ttt	gac	aag	gac	ggg	gat	ggg	aca	ata	aca	acc	aag	gag	ctg	96
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aat	ggc	tac	atc	agt	gca	gca	gag	ctt	cgc	cac	gtg	atg	aca	aac	ctt	336
Asn	Gly	Tyr	Ile	Ser	Ala	Ala	G1u	Leu	Arg	His	Val	Met	Thr	Asn	Leu	
			100					105					110			

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Gly Glu Lys Leu Thr Asp Glu Glu Val Asp Glu Met Ile Arg Glu Ala 115 120 125 gac atc gat ggg gat ggt cag gta aac tac gaa gag ttt gta caa atg 432 Asp Ile Asp Gly Asp Gly Gln Val Asn Tyr Glu Glu Phe Val Gln Met 130 135 140 447 atg aca gcg aag tga Met Thr Ala Lys 145 <210> 3 <211> 63 <212> DNA <213> Artificial Sequence <220> <221> CDS <222> (1).. (63) <220> $\langle 223 \rangle$ M13 segments of smooth muscle myosin light chain kinase <400> 3 tca tca cgt cgt aag tgg aat aag aca ggt cac gca gtc aga gct ata 48 Ser Ser Arg Arg Lys Trp Asn Lys Thr Gly His Ala Val Arg Ala Ile 1 5 10 15 ggt cgg ctg agc tca 63

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Thr	Gln	Ser	Ala	Leu	Ser	Lys	Asp	Pro	Asn	Glu	Lys	Arg	Asp	His	Met	
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Val	Leu	Leu	Glu	Phe	Val	Thr	Ala	Ala	Gly	Ile	Thr	Leu	Gly	Met	Asp	
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Inr	lyr	GIY	Lys	Leu	inr	Leu	Lys	Pne		Cys	Inr	Inr	GIY		Leu	
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000	at a	000	+ ~ ~	ccc	000	a t a	~+~	000	000	o t a	000	+00	~~~	a+ a	000	576
				Pro						_					_	370
110	Vai	110	180	110	1111	Leu	vai	185	1111	Leu	1111	1 9 1	190	vai	UIII	
			100					100					130			
tec	ttc	agc	CEC	tac	ccc	gac	cac	at.ø	ลล๑	cag	cac	gac	tte	tte	aag	624
- 6 -			- 30			50		0				ں ہی				



Cys	Phe	Ser 195	Arg	Tyr	Pro	Asp	His 200	Met	Lys	Gln	His	Asp 205	Phe	Phe	Lys	
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					aag Lys 230											720
					atc Ile											768
					cac His											816
					gca Ala											864
_	_		_		aca Thr				_		_					912
		_		_	aac Asn 310			-	-		_	_	_	_		960
aat	gaa	gta	gat	gcc	gac	ggt	aat	ggc	aca	atc	gac	ttc	cct	gaa	ttc	1008



Asn	Glu	Val	Asp	Ala	Asp	Gly	Asn	Gly	Thr	Ile	Asp	Phe	Pro	G1u	Phe
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Ile Arg Glu Ala Phe Arg Val Phe Asp Lys Asp Gly Asn Gly Tyr Ile

355 360 365

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Thr Asp Glu Glu Val Asp Glu Met Ile Arg Glu Ala Asp Ile Asp Gly
385 390 395 400

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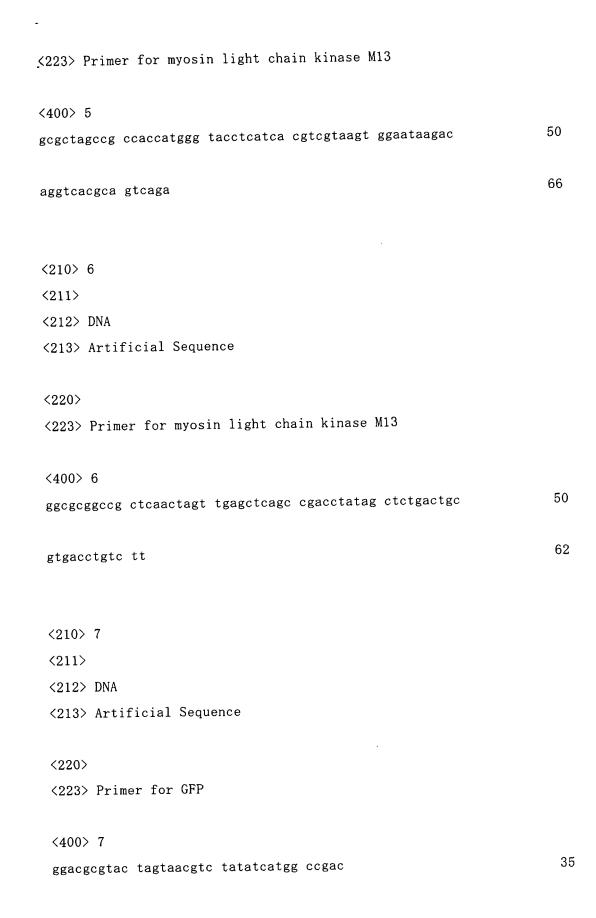
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